

**Tetra Tech, Inc.**

4213 State Street, Suite 100
 Santa Barbara, CA 93110-2847
 VOICE (805) 681-3100 FAX (805) 681-3108

Project: **Vandenberg Air Force Base IRP**Log of Well No. **33-MW-5**
 Location: **OU4, Site 33, approximately 150 feet southwest
 of southern corner of perimeter fence.**

Date Started: 10/2/96 Completed: 10/3/96
 Logged By: J. Bonebrake Harting Checked By: J. R. Steele, R.G.,
 C.E.G., C.H.G.
 Drilled By: Brent Carpenter, S/G Testing *J.R. Steele*
RF# 5963
 Drilling Equipment: CME 75, 8-inch & 10-inch HSA
 Sampling Equipment: 2-inch I.D. Split Spoon
 GS Elev.: 59.90 ft above MSL TD: 26 ft bgs

4" PVC Blank Casing: from 0 ft bgs to 13.6 ft bgs
 0.02" Screening Casing: from 14 ft bgs to 24 ft bgs
 Bentonite/Cement Grout: from 1 ft bgs to 8.5 ft bgs
 Bentonite Transitional Seal: from 8.5 ft bgs to 11.5 ft bgs
 #3 Sand Filter Pack: from 11.5 ft bgs to 26.0 ft bgs
 TOC Elev.: 62.74 ft above MSL

Depth (ft. bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
5	sand, dark yellowish brown (10YR 4/4), fine grained, poorly graded, subrounded to subangular, loose, dry, trace medium sand, trace shale gravel, trace organic debris (plant, etc.), dune sand.		SP					0/0	Start drilling 0840.
	trace silt, less gravel, less organic material, medium dense.					5 6 8	20	0/0	
10	yellowish brown (10YR 5/6), moist, trace medium grained sand.					6 9 11	90	1.1/ 1.4	
15	yellowish brown (10YR 5/4).					5 11 16	100	1.1/ 1.4	
20									

21.3 ft bgs ▼ Groundwater depth during drilling

21.05 ft bgs ▽ Groundwater depth after well development on: 11/12/96

TC Number: A208-09

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20	<u>sand</u> , brown (10YR 5/3), fine grained, poorly graded, subrounded and subangular, medium dense, wet, trace medium sand few silt.		SP- SM			6 9 15	90	1.1/ 1.3	
	<u>shale</u> , moist, Monterey Formation.		Shale						
25									
30									End drilling 1007. On 10/2/96 groundwater measured at 21.3 ft. TD 8-inch auger at 23 ft. TD 10-inch auger at 26 ft.
35									Well construction completed 10/3/96.
40									
45									